

FIG. 1

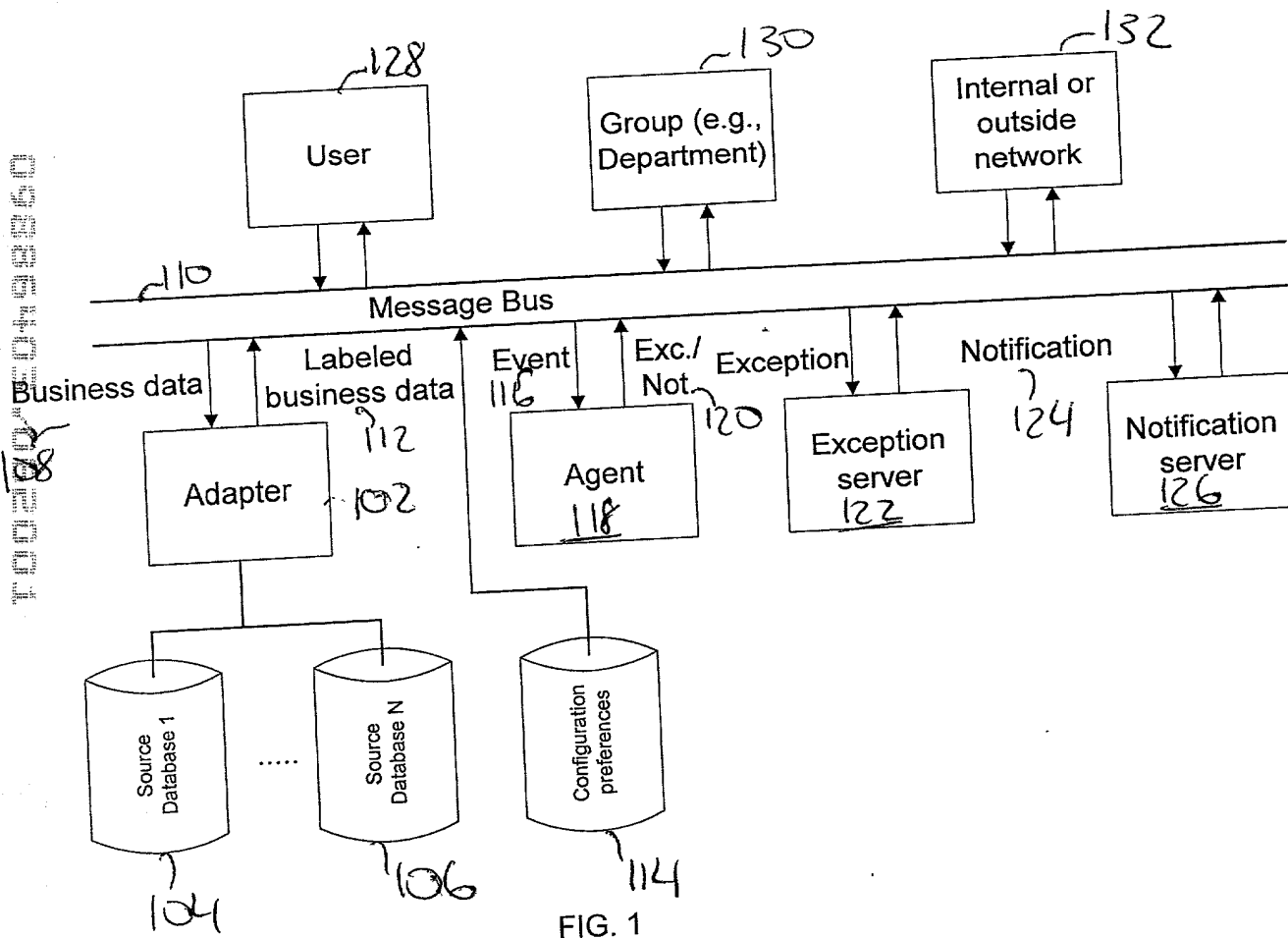


FIG. 1

Customer ID	← Business attribute #1	~204	} 202
Order #	← Business attribute #2	~206	
Ship date	~214		
SKU1			
Number of orders for SKU1			
Inventory level for SKU1	← Business metric #1	~210	} 208
SKU2			
Number of orders for SKU2			
Inventory level for SKU2	← Business metric #2	~212	
.			
.			
.			

FIG. 2

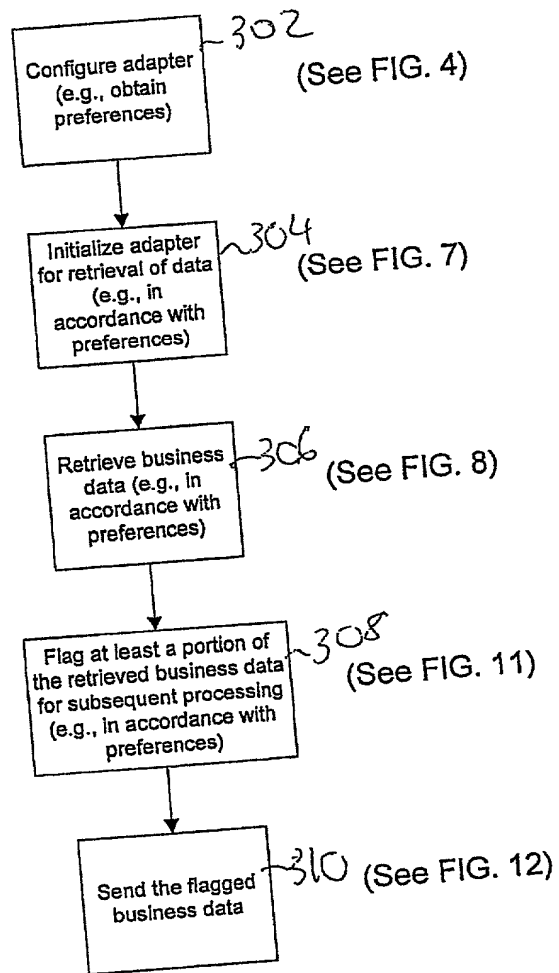


FIG. 3

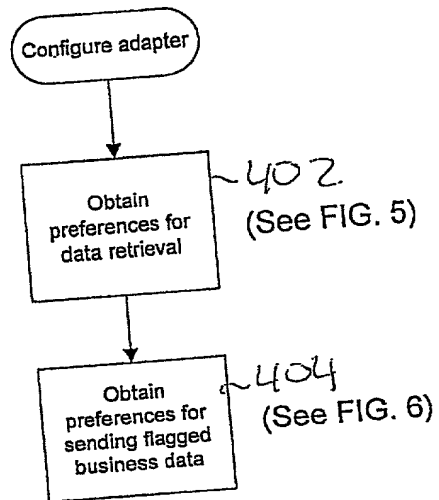


FIG. 4

Obtain preferences for data retrieval

Identifying business data fields indicating business data to be retrieved

Identifying source of data retrieval (e.g., database tables, message bus)

Selecting scheduling frequency for retrieval of business data (e.g., daily, weekly, hourly)

FIG. 5

Obtain preferences for
sending flagged
business data

Identifying business
attributes of the retrieved
business data to be
flagged for further
processing (e.g.,
monitoring)

Identifying business
metrics of the retrieved
business data to be
flagged for further
processing (e.g.,
monitoring)

404

~602

~604

FIG. 6

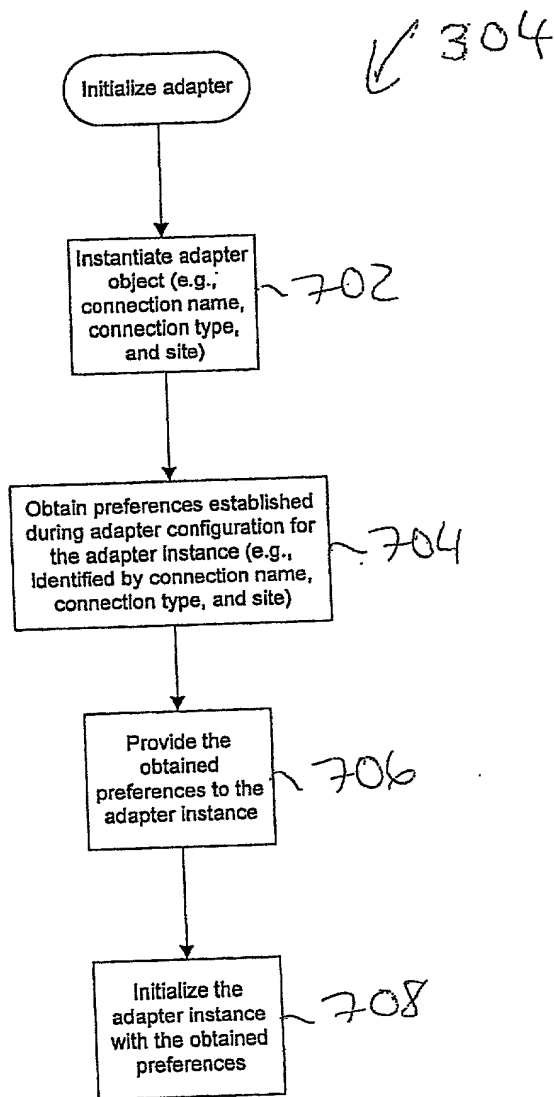


FIG. 7

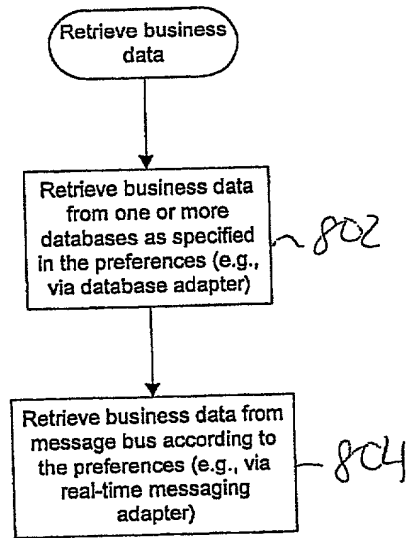


FIG. 8

Retrieve business
data from one or
more databases



Obtain the
preferences for
data retrieval from
the instance



Obtain data identified by the
specified data fields from the
source according to the
scheduling frequency as defined in
the preferences

✓ 802

~902

~904

FIG. 9

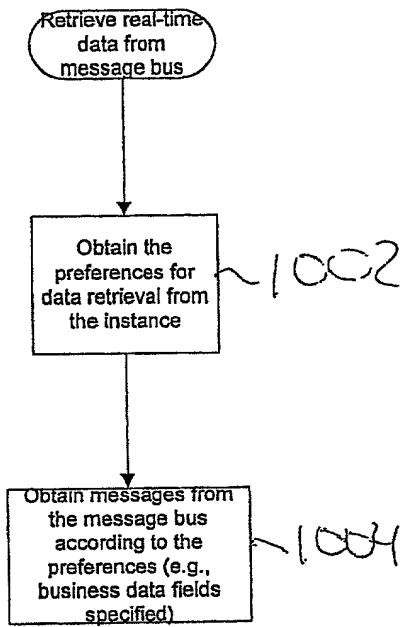
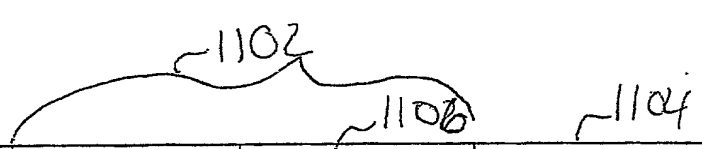


FIG. 10



Attribute name	Data type	Attribute value	Attribute #	Metric value flag
Customer	String	"SHOES INC"	1	
Order No.	Integer	42859	2	
Ship date	String	"01/04/01"		
SKU1	Integer	000195		
Number of orders – SKU1	Integer	4		
Inventory level for SKU1	Integer	97		1
SKU2	Integer	000228		
Number of orders – SKU2	Integer	16		
Inventory level for SKU2	Integer	31		2

FIG. 11

Message

Subject name	1202
Array (see FIG. 11)	1204

FIG. 12

038840 06001
100000 049850

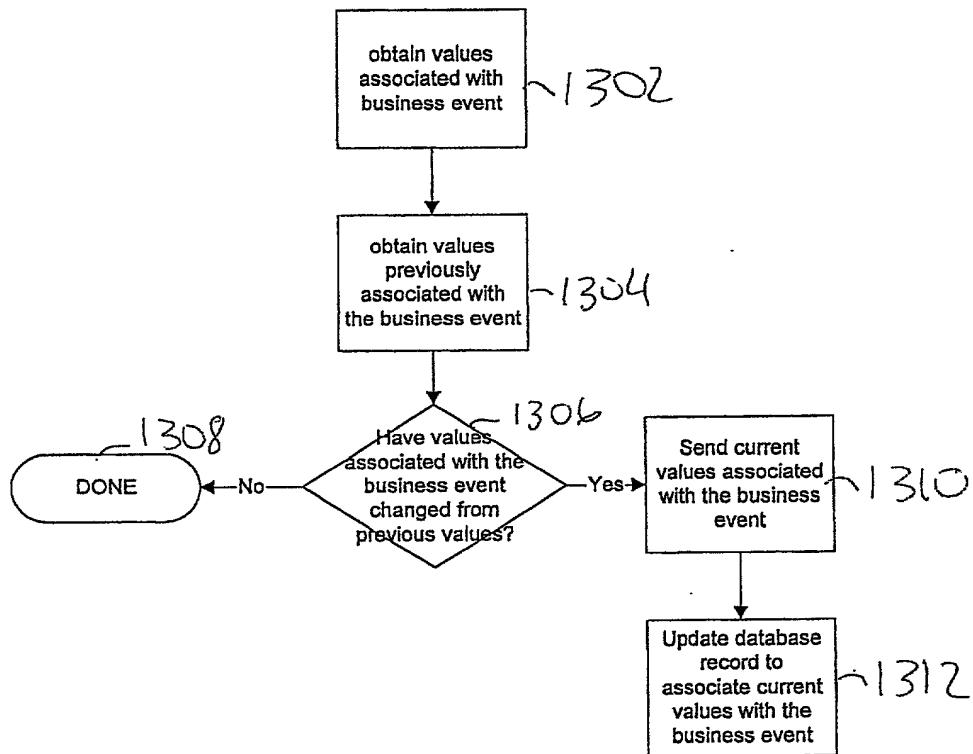


FIG. 13

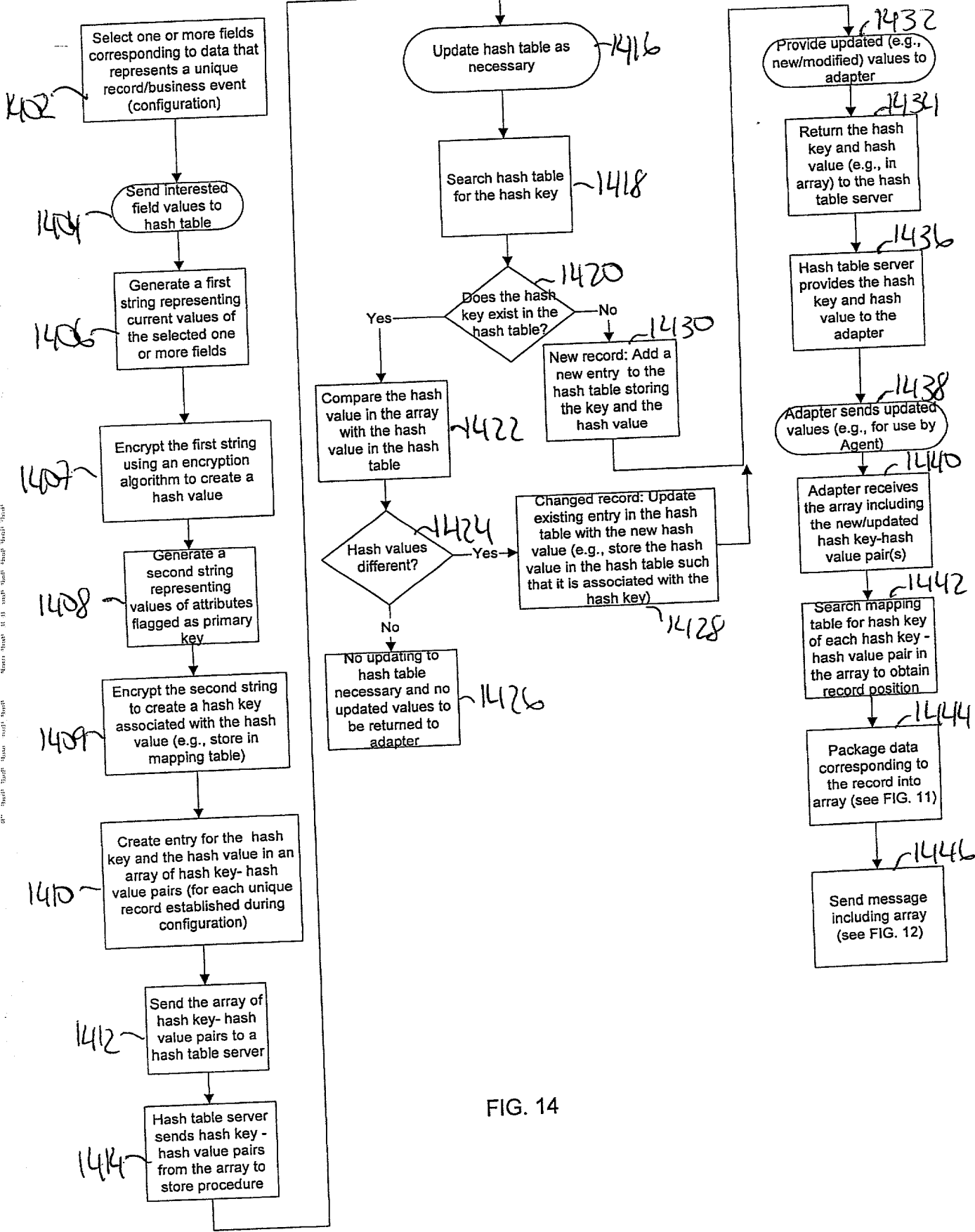


FIG. 14

1502 1504

Hash key	Hash value
Key 1	String 1
Key 2	String 2

FIG. 15

1602 Mapping Table 1604

Hash key	Original record position (e.g., pointer)

FIG. 16

FIG. 17

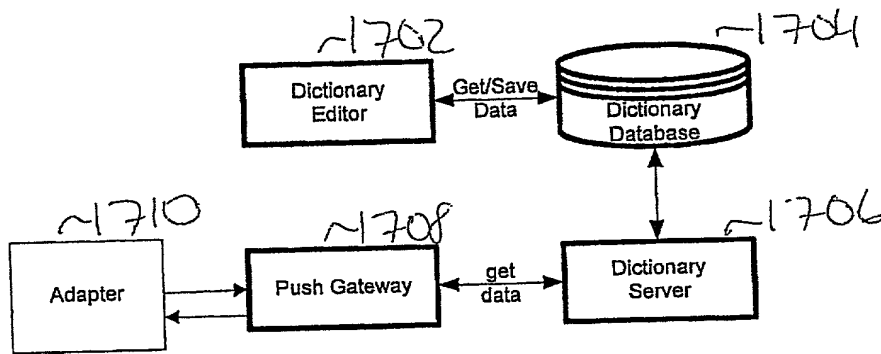


FIG. 17

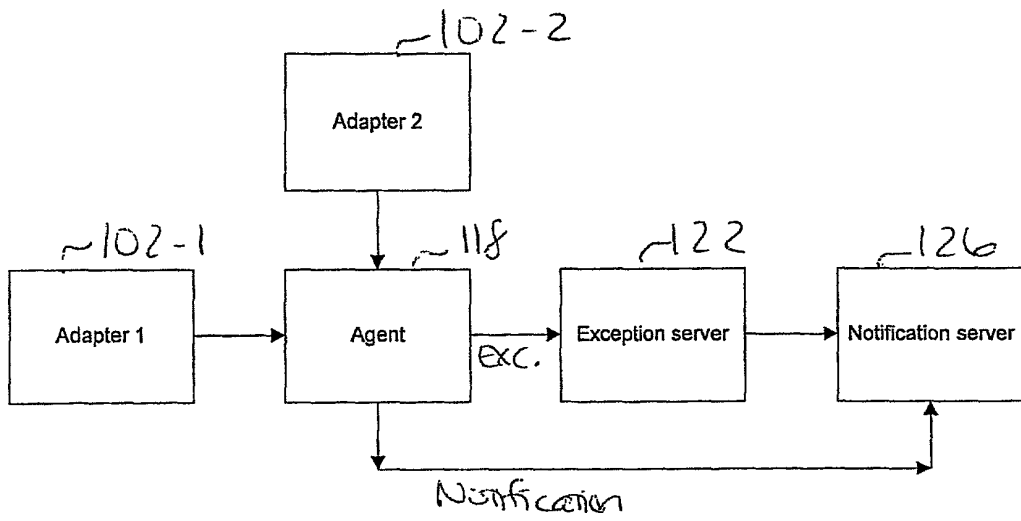


FIG. 18

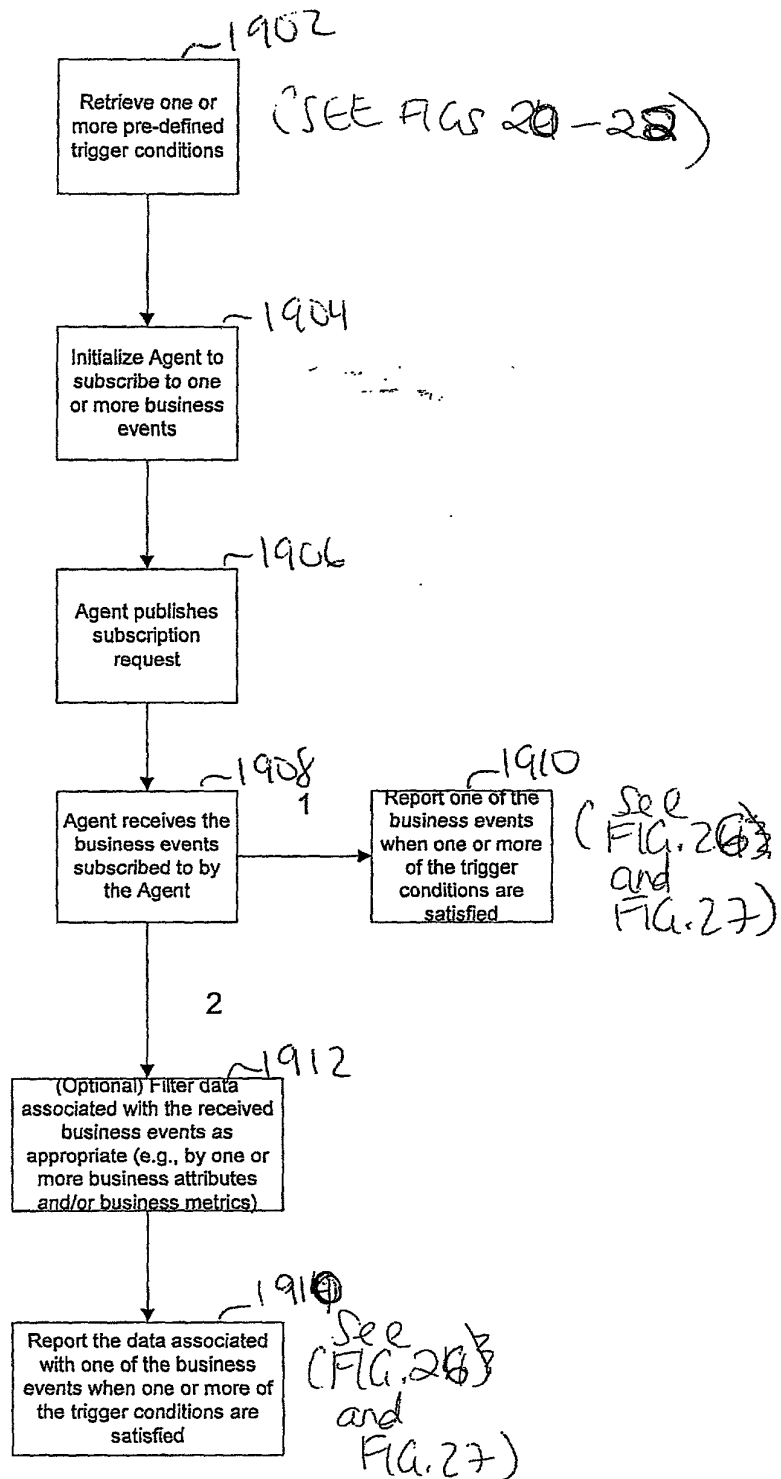


FIG. 19

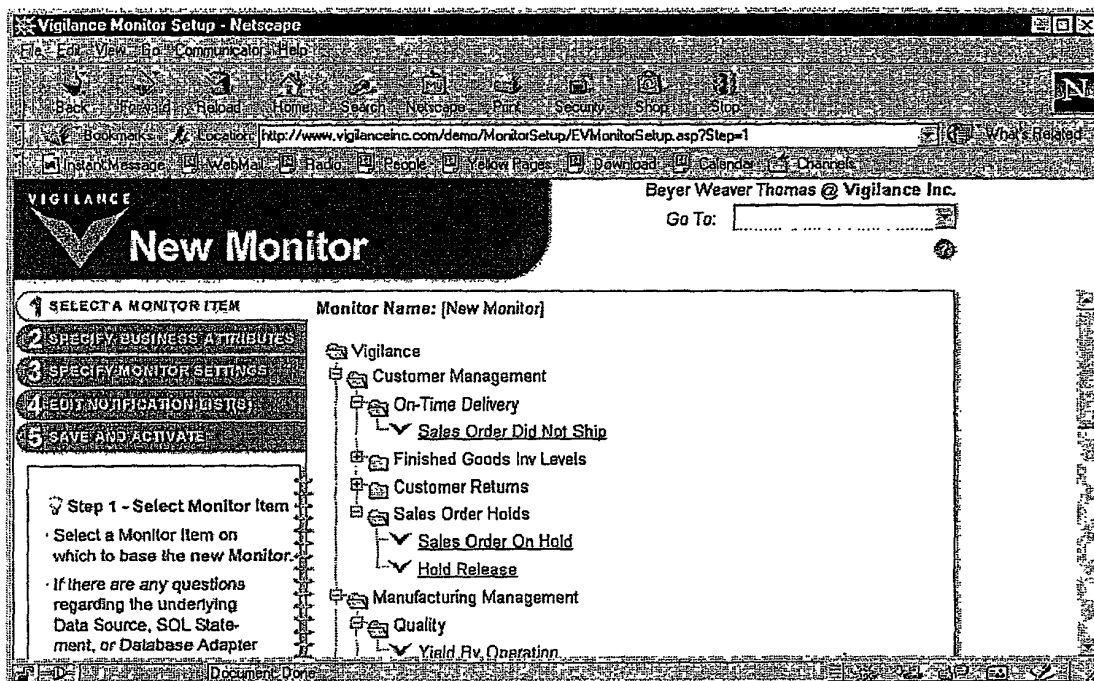


FIG. 20

Vigilance Monitor Setup - Netscape

Back Forward Reload Home Search Netscape Print Security Stop Stop

Location: <http://www.vigilanceinc.com/demo/MonitorSetup/EVMonitorSetup.asp?MonitorItem=SalesOrder&Step=2>

What's Related

Mail Messages WebMail Radio Recipe Yellow Pages Downloads Calendar Channels

VIGILANCE

New Monitor

Beyer Weaver Thomas @ Vigilance Inc.
Go To:

1 SELECT A MONITOR ITEM **2 SPECIFY BUSINESS ATTRIBUTES** **3 SPECIFY MONITOR SETTINGS** **4 EDIT NOTIFICATION LIST(S)** **5 SAVE AND ACTIVATE**

Monitor Name: [New Monitor] **STEP 1 STEP 2**

Monitor Item: Sales Order Did Not Ship

Business Attribute: Order

Enter/Select Attribute Values

Track These Values

[All Values]

Business Attribute: Product Family

Enter/Select Attribute Values

Track These Values

[All Values]

Business Attribute: Plant

Step 2 - Specify Business Attribute Values

- Business Attribute Values are case-sensitive.
- Business Attribute Values are optional.

[Select Values]
DiskDrive100
DiskDrive200
HardDrive100
PackagedDrives

Document Done

FIG. 21

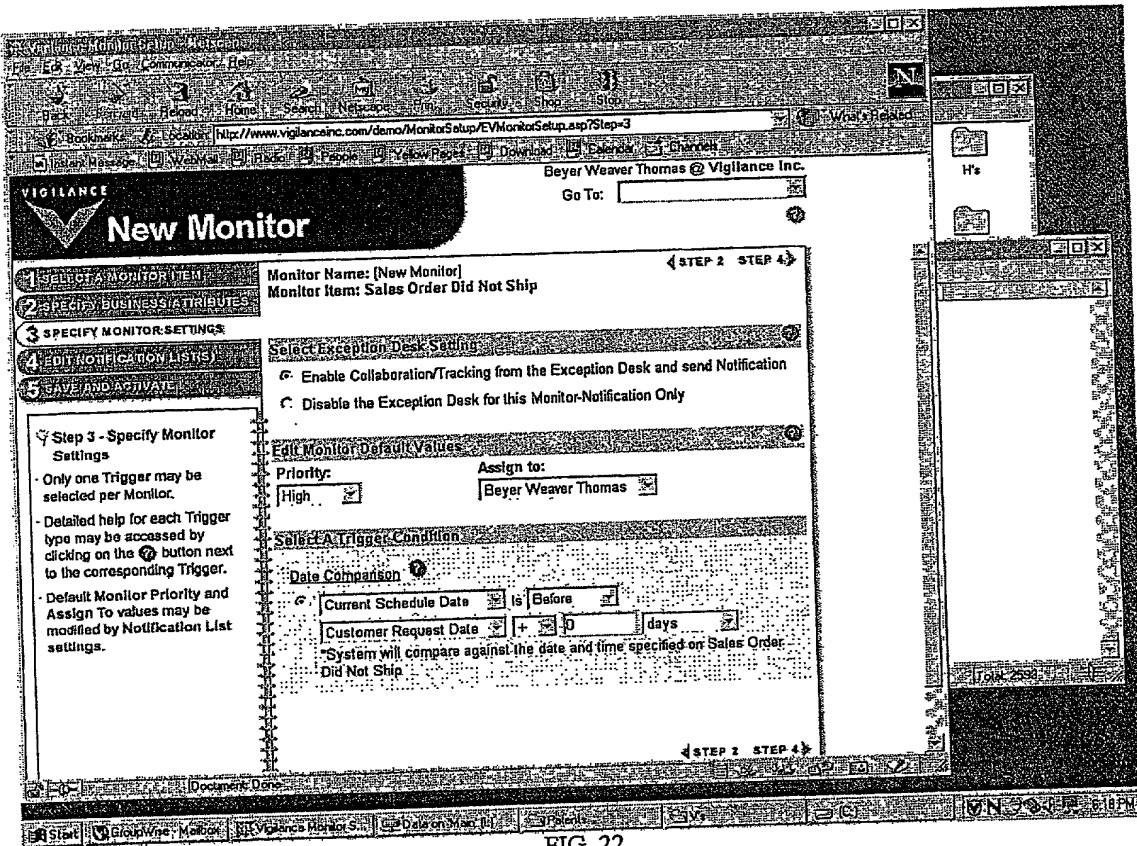


FIG. 22

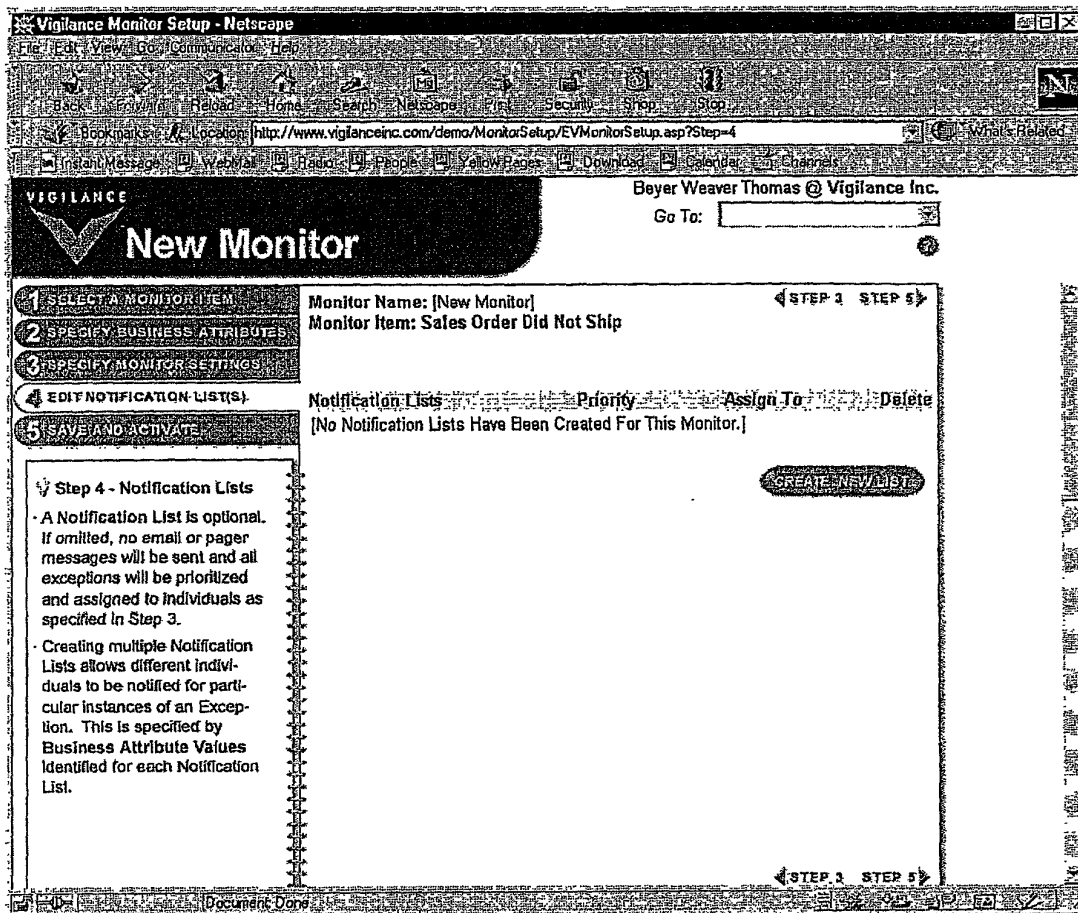


FIG. 23

Vigilance Monitor Setup - Netscape

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Bookmarks Location http://www.vigilanceinc.com/demo/MonitorSetup/EVMonitorSetup.asp?Step=6 What's Related

Mail Message WebMail Radio People Yellow Pages Download Calendar Channels

VIGILANCE

New Monitor

Bayer Weaver Thomas @ Vigilance Inc.

Go To:

1 SELECT A MONITOR ITEM

2 SPECIFY BUSINESS ATTRIBUTES

3 SPECIFY MONITOR SETTINGS

4 EDIT A NOTIFICATION LIST

5 SAVE AND ACTIVATE

Step 4 - Notification Lists

A Notification List is optional. If omitted, no email or pager messages will be sent and all exceptions will be prioritized and assigned to individuals as specified in Step 3.

Creating multiple Notification Lists allows different individuals to be notified for particular instances of an Exception. This is specified by Business Attribute Values identified for each Notification List.

Monitor Name: [New Monitor]

Monitor Item: Sales Order Did Not Ship

List Name: [New List]

Select Notification Method

☒ E-Mail ☐ Alphanumeric pager ☐ Numeric pager

☐ Disable Notification Grouping for selected users.*

Select Users

Users	Notification Recipients
Alexander Jeffers	Bayer Weaver Thomas(E)
Amie Wang	
Andy Sawran	
Anessa Katz	
Bayer Weaver Thomas	
Bill Bailey	
Bill Gilster	
Bob Durose	
Brian Clausen	

Select Notification Time

☒ At All Times or

☐ From 9 : 00 AM to 5 : 00 PM

Select Notification Days

FIG. 24A

Vigilance Monitor Setup - Netscape

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Bookmarks Location: <http://www.vigilanceinc.com/demo/MonitorSetup/EVMonitorSetup.asp?Step=6> What's Related

Install Message WebMail Radio People Yellow Pages Download Calendar Channels

VIGILANCE **New Monitor** Beyer Weaver Thomas @ Vigilance Inc.
Go To:

Select Notification Days

☒ Everyday or
☐ M, ☐ Tu, ☐ W, ☐ Th, ☐ F, ☐ Sa, ☐ Su

Select Notification Delay

☒ Notify immediately, no delay.
☐ Notify after days.
☐ Notify when Exception Status is Closed

Field Based Notification (Based on Email Address or Alias)

☐ Use Field-Based Notification
 (Select One Monitor Item Attribute)

☐ Enable Safety Net (Select One User)

Notification Method:
☐ E-Mail ☐ Alphanumeric Pagers ☐ Numeric Pagers

Notify These Recipients For:

☐ All exceptions of this monitor
☒ Specific exceptions of this monitor (By Business Attributes)

Document Done

FIG. 24B

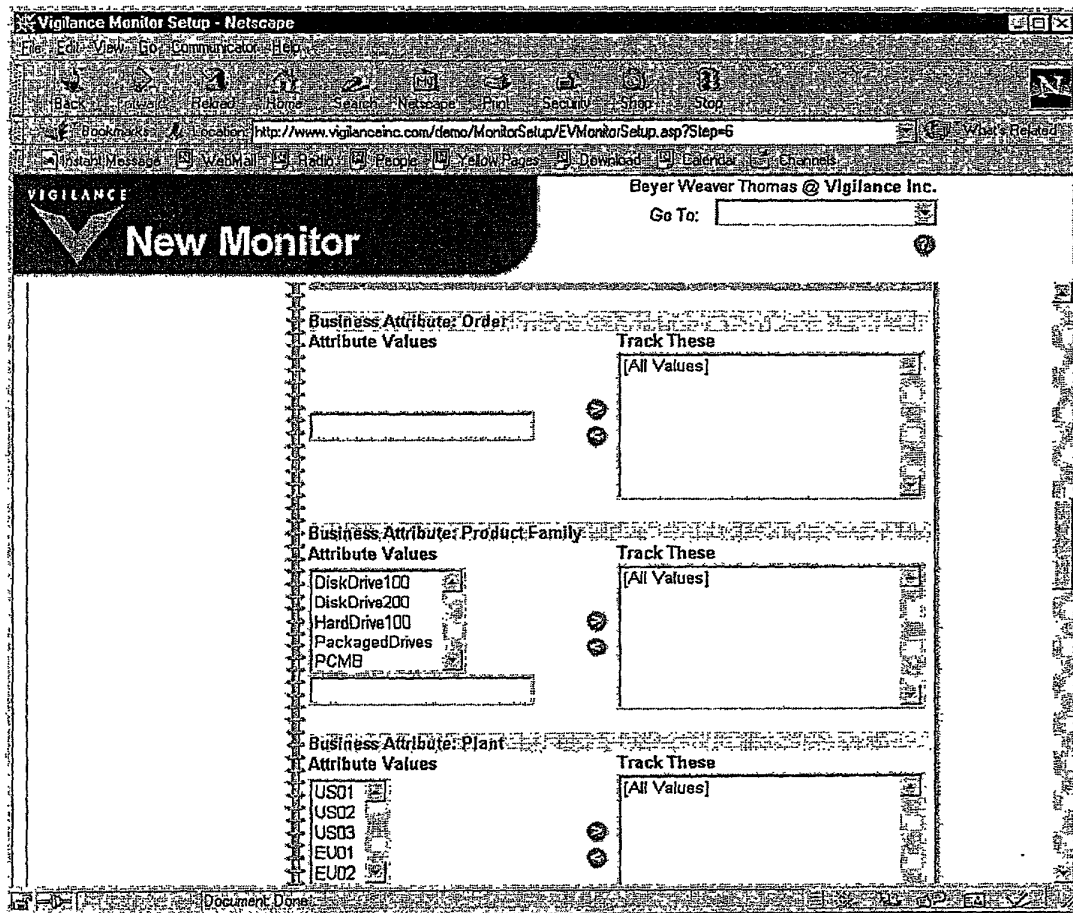


FIG. 24C

Vigilance Monitor Setup - Netscape

File Edit View Go Bookmark Help

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Bookmarks Location: <http://www.vigilanceinc.com/demo/MonitorSetup/EVMonitorSetup.asp?Step=6> What's Related

Instant Message Web Mail Radio People Yellow Pages Download Calendar Channels

VIGILANCE

New Monitor

Bayer Weaver Thomas @ Vigilance Inc.

Go To:

Edit Notification Message

☒ Use Default Message
☐ Customize the Message

Select Exception Properties For This Notification List

Priority: Assign to:

Name Notification List

Notification List Name:

Existing Lists For This Monitor:

FINISH LIST

Document Done

FIG. 24D

09636403.060001

090000-0000

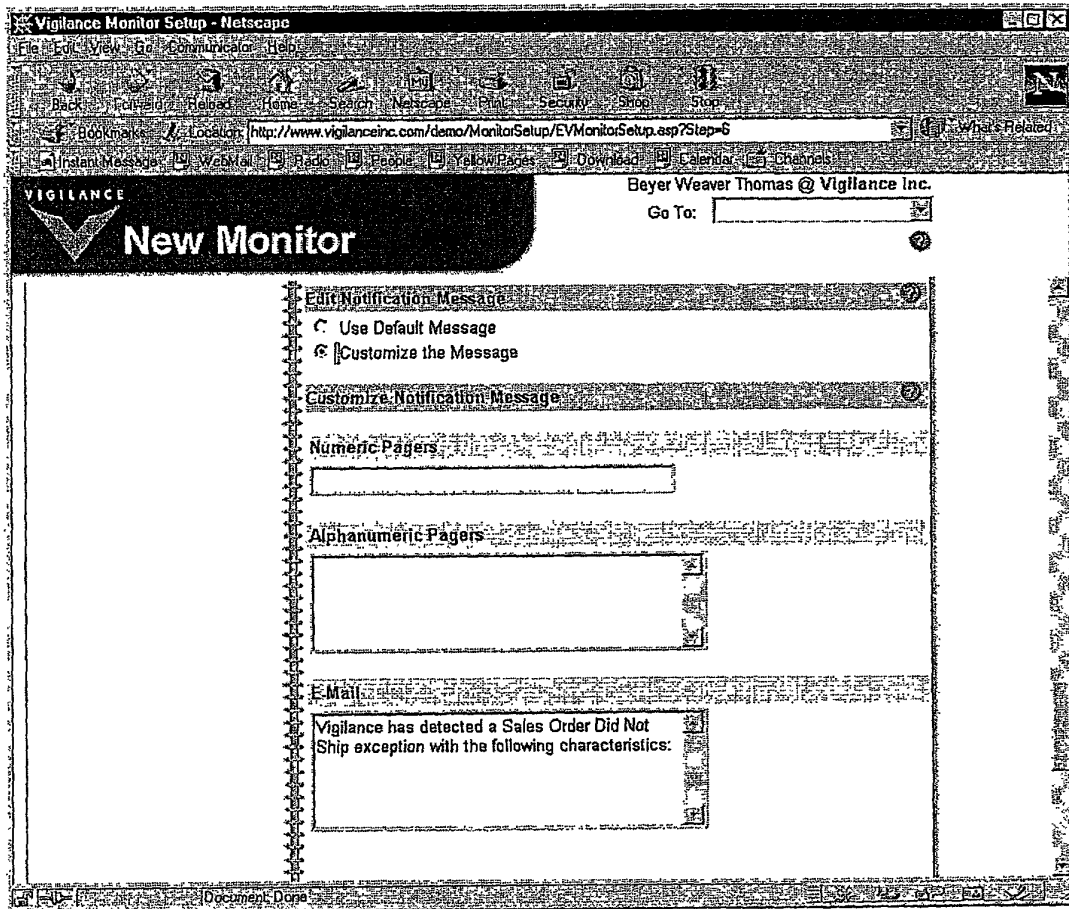


FIG. 24E

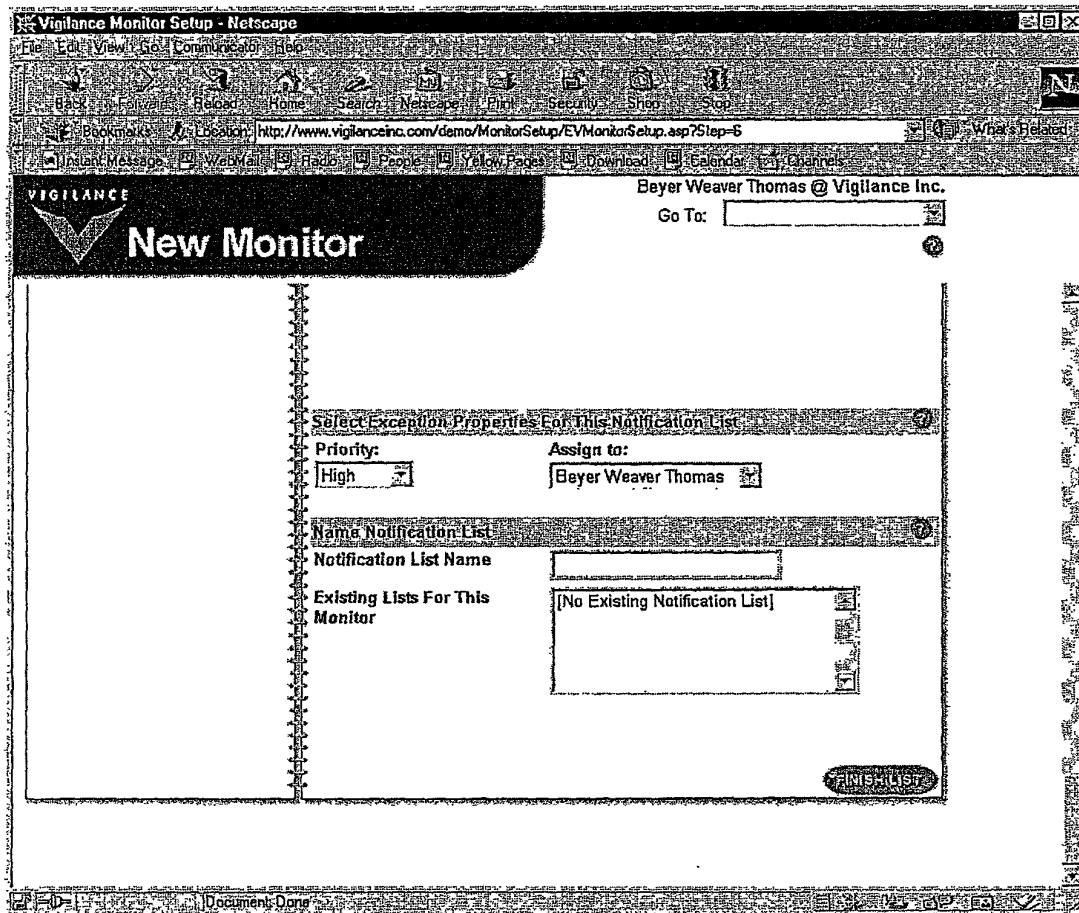


FIG. 24F

Vigilance Monitor Setup - Netscape

File Edit View Go Communications Help

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Bookmarks Location <http://www.vigilanceinc.com/demo/MonitorSetup/EVMonitorSetup.asp?Step=5> What's Related

Internet Messages Webmail Radio People Yellow Pages Downloads Calendar Channels

VIGILANCE

Beyer Weaver Thomas @ Vigilance Inc.

Go To:

New Monitor

- 1 SELECT A MONITOR ITEM
- 2 SPECIFY BUSINESS ATTRIBUTES
- 3 SPECIFY MONITOR SETTINGS
- 4 EDIT NOTIFICATION LIST(S)
- 5 SAVE AND ACTIVATE

Monitor Name: [New Monitor] ← STEP 4

Monitor Item: Sales Order Did Not Ship

Edit Monitor Details

Monitor Name

Existing Monitors

- 1stsi - Sales order on hold demo
- Actual below .4 of forecast
- CM-BacklogAging-30Day
- CM-LatePO
- CM-LateShip-OSD

Department (Optional)

Step 5 - Save and Activate

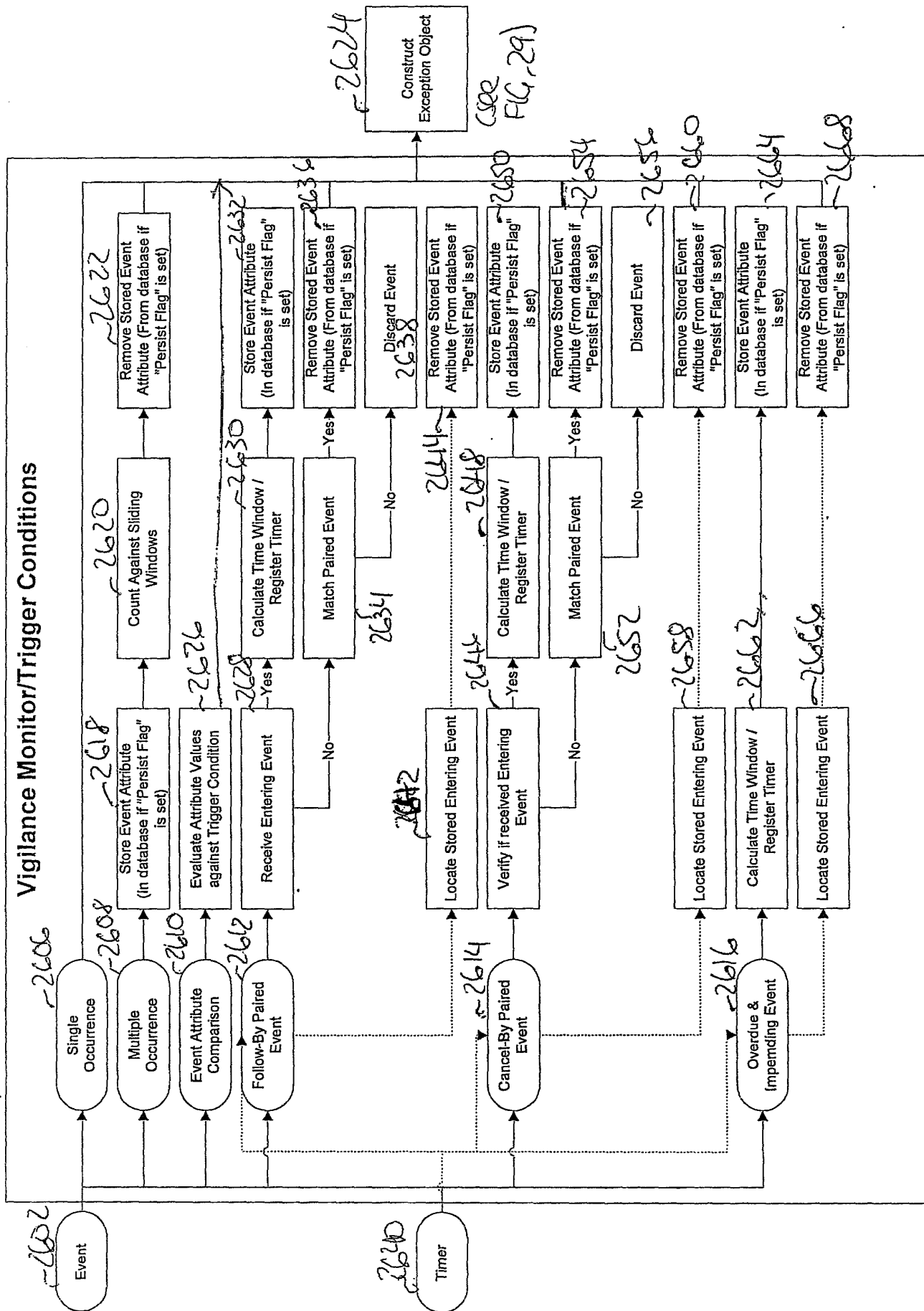
- Choose a Monitor Name that is meaningful and will allow others to determine each Monitor's purpose.
- Descriptive prefixes for Monitor Names are recommended to aid with identification and grouping (e.g. - IM - Lot on Hold > 2 hrs., PA - Goods Receipt ⇔ Invoice Qty., etc.)
- Monitor will take effect the first time the corresponding Database Adapter runs following activation. Consult the Vigilance Dictionary Editor or your Vigilance System Administrator for Adapter run times.

Document Done

FIG. 25

0926403 0000

Vigilance Monitor/Trigger Conditions



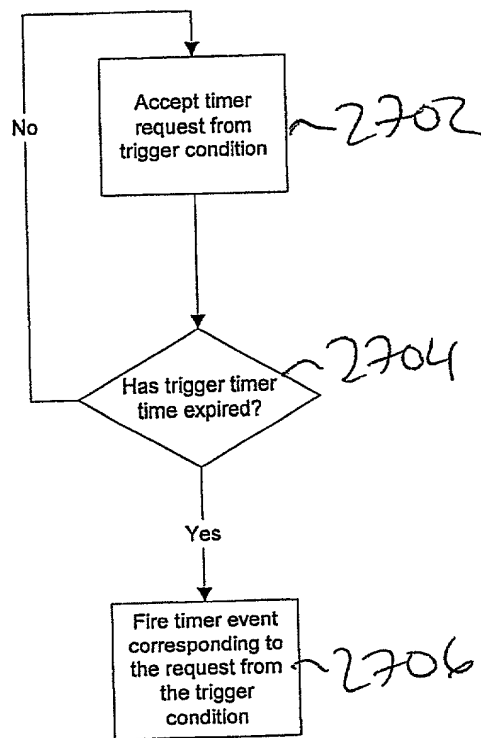


FIG. 27

Monitor object

Monitor Name 2802
Monitor Author 2804
Condition 2806
One or more attributes 2808 (e.g., including one or more values)
Notification 2810
Assignment 2812

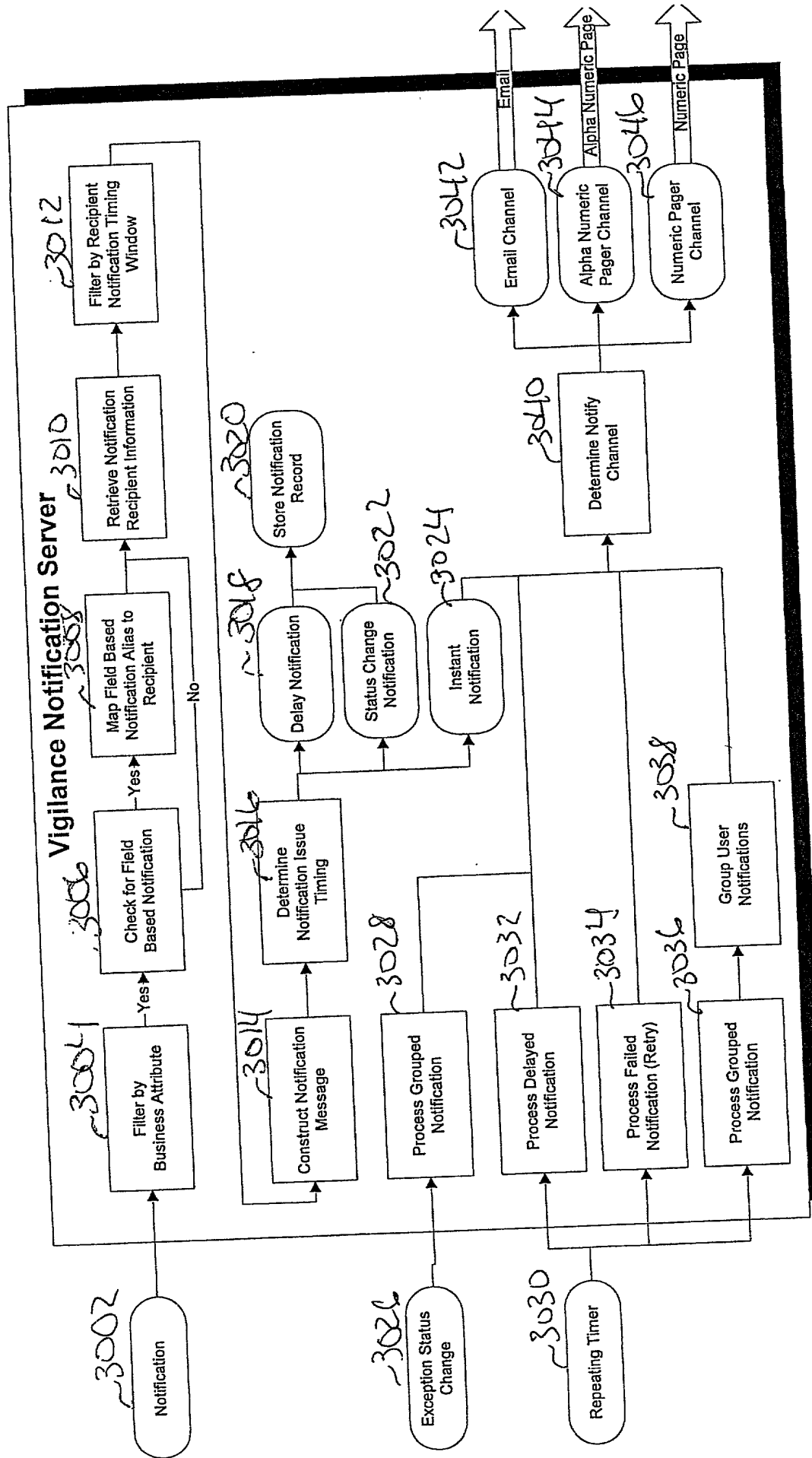
FIG. 28

Exception object

Exception identifier 2902	Exception description 2904	Event identifier 2906
Trigger condition 2908	Trigger type 2910	One or more attributes (e.g., business metrics) 2912
One or more attribute values 2914	Monitor name 2916	Monitor item 2918
Notification/exception 2920	Assign to 2922	Priority 2924
Detection time 2926	Analysis 2928	Analysis author 2930

FIG. 29

FIG. 30



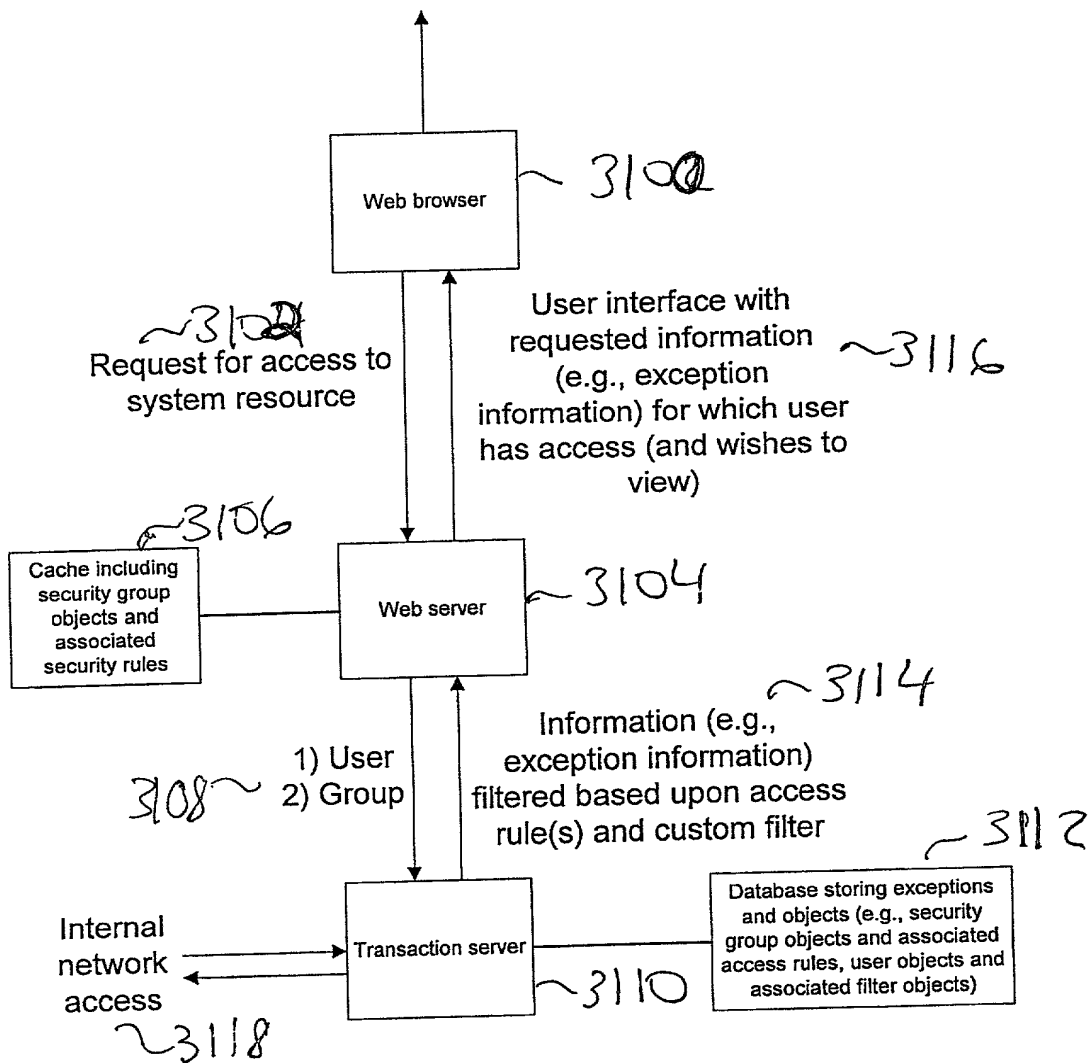


FIG. 31

3202

User Object	
User: Peiwei	Company: Vigilance 3204
	Security group: A 3206
	One or more attributes and associated values – RULE 13 3208
	One or more filter objects – (e.g., attribute settings) indicating information that user wishes to view 3210

FIG. 32

Security group object(s): Groups and associated list of rules indicating read/write access to exceptions/portions of exceptions

Group1: Security group A 3212	Read access for exceptions notified to themselves 3214
Group2: Security group B 3216	1) Read/write access for exceptions created by monitors authored by themselves; 2) Read access for exceptions with analysis authored by someone in their company 3218

FIG. 33

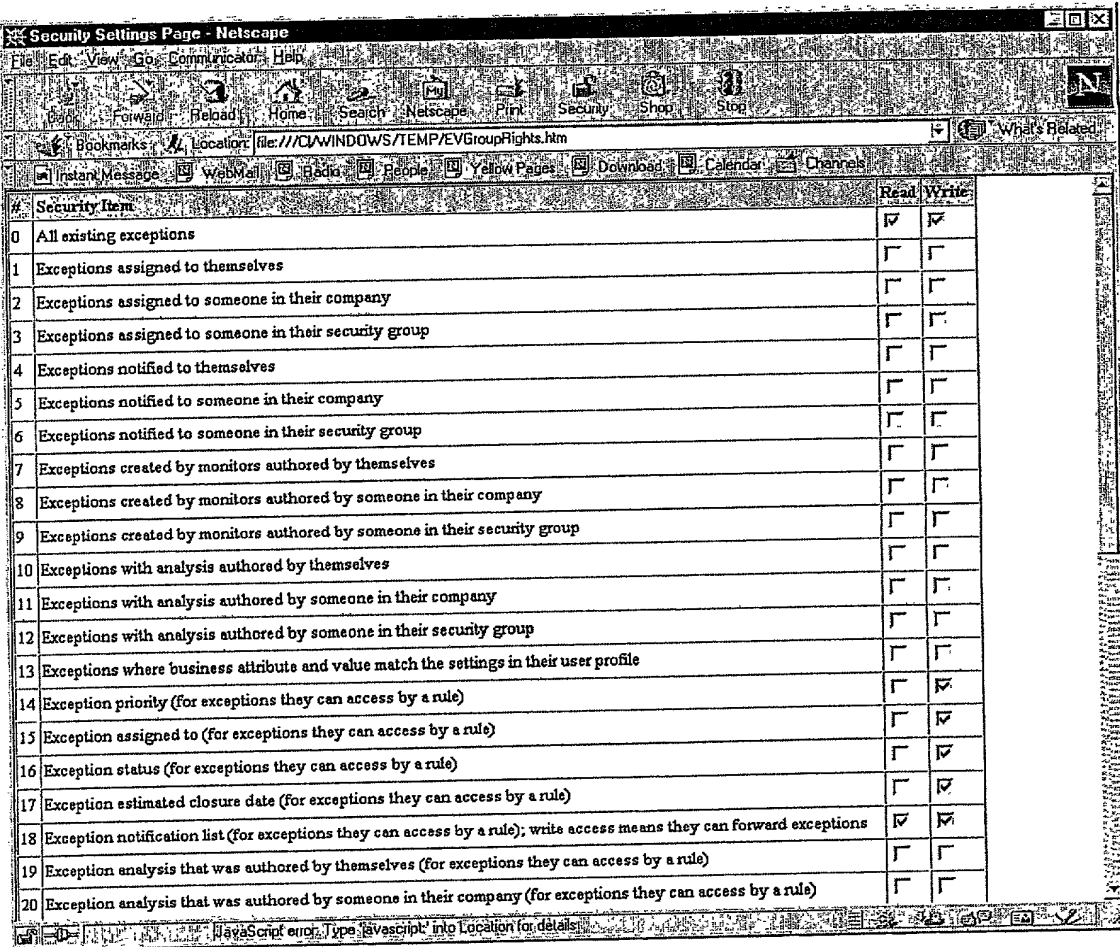


FIG. 34A

Security Settings Page - Netscape


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Bookmarks Location file:///C:/WINDOWS/TEMP/EVGroupRights.htm What's Related

Instant Message WebMail Radio People Yellow Pages Download Calendar Channels

19	Exception analysis that was authored by themselves (for exceptions they can access by a rule)	<input type="checkbox"/>	<input type="checkbox"/>
20	Exception analysis that was authored by someone in their company (for exceptions they can access by a rule)	<input type="checkbox"/>	<input type="checkbox"/>
21	Exception analysis that was authored by someone in their security group (for exceptions they can access by a rule)	<input type="checkbox"/>	<input type="checkbox"/>
22	All exception analysis (for exceptions they can access by a rule)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
23	Can record new analysis (for exceptions they can access by a rule) (write only)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
24	Exception monitor item and trigger condition (for exceptions they can access by a rule) (read only)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25	Exception filter values from monitor setup (for exceptions they can access by a rule) (read only)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
26	Exception actual values (for exceptions they can access by a rule) (read only)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
27	All existing monitors	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
28	Can create new monitors (write only)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
29	All existing users	<input type="checkbox"/>	<input type="checkbox"/>
30	Can create new users (write only)	<input type="checkbox"/>	<input type="checkbox"/>
31	All existing analysis codes	<input type="checkbox"/>	<input type="checkbox"/>
32	Can create new analysis codes (write only)	<input type="checkbox"/>	<input type="checkbox"/>
33	Can activate or deactivate existing monitors (write only)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
34	All existing security groups	<input type="checkbox"/>	<input type="checkbox"/>
35	Can create new security groups (write only)	<input type="checkbox"/>	<input type="checkbox"/>
36	Can access analytics page (write only)	<input type="checkbox"/>	<input type="checkbox"/>
37	Can access alias definition page	<input type="checkbox"/>	<input type="checkbox"/>

 To save your changes to the security settings for this group

JavaScript error: Type 'javascript' into Location for details

FIG. 34B

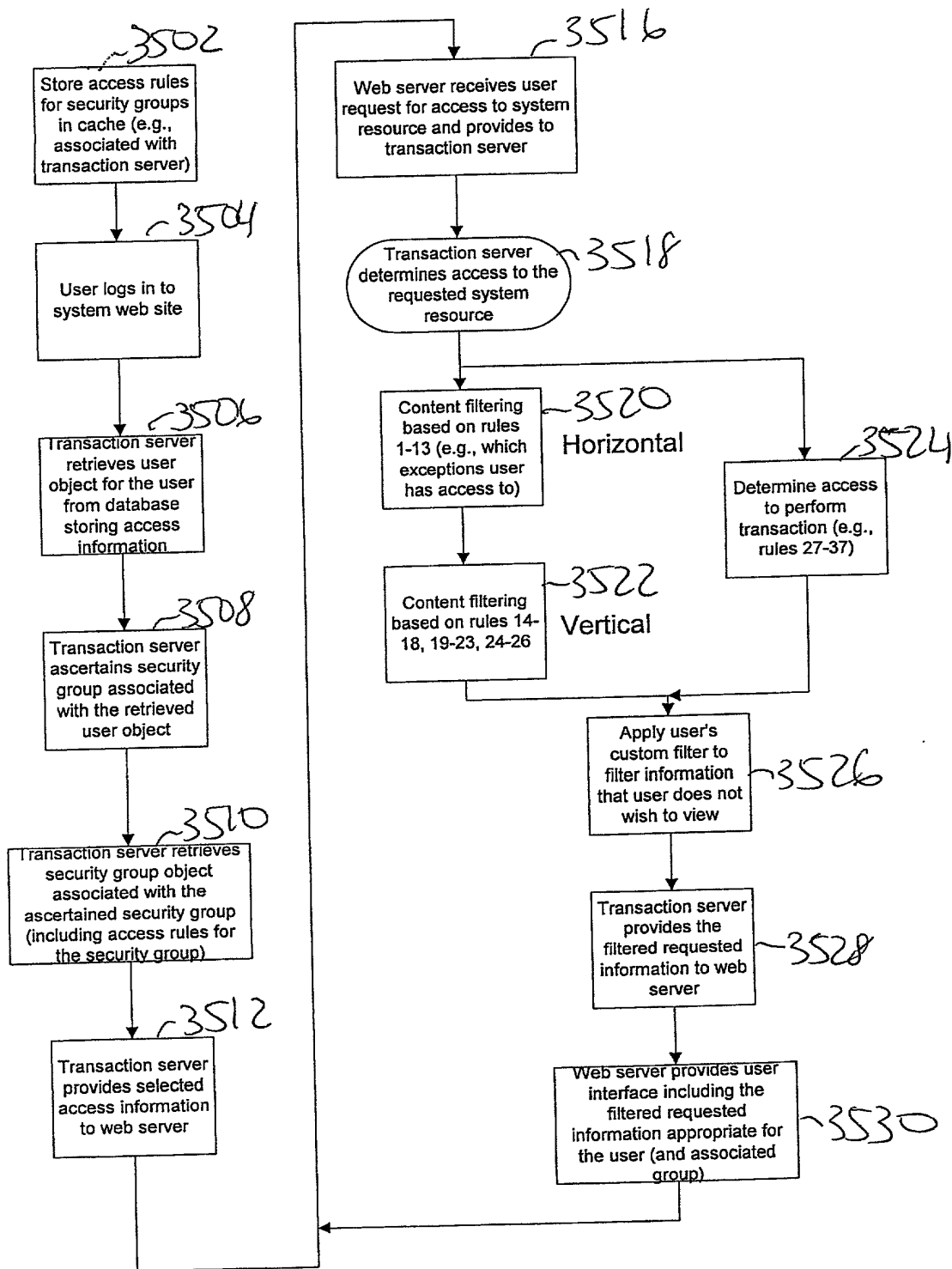


FIG. 35

Vigilance List - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print

Address http://65.200.85.2/demo/MPList/EVList.asp?Type=Exceptions

VIGILANCE

Exception Desk

Beyer Weaver Thomas @ Vigilance Inc.

Go To:

☐ OFF

To view/change, enter ID: OR Filtered and sorted by your most recent filter and sort settings.

Click on description below: Showing 1-50 of 145 | [Next Page](#) | [Last](#)

ID	Description	Detected At	Priority	Assigned To	Status	Closure On	Analysis Entries
144	Sales Order Did Not Ship by Line Creation Date + 30 day(s) for Order: 10002 - PC Int'l - 100DD4001	May 18, 2001 11:43 AM	Medium	John E. Schneider	Open	Not Set	3 May 19 2:43 PM
137	Sales Order Did Not Ship by Original Schedule Date for Order: 10030 - Compaq - 200DD2001	May 18, 2001 9:43 AM	High	Chuck Lindsey	Open	May 20, 2001	1 May 18 2:31 PM
133	Supplier Delivery Not Received by Scheduled Delivery Date for PO: P900000105 - CreativDrive - 200SC3001	May 17, 2001 5:45 PM	High	Richard K. Yoon	Open	May 20, 2001	2 May 19 4:04 PM
125	Sales Order On Hold occurred for Order: 10005 - iBus - PKG1000	May 17, 2001 3:35 PM	Medium	Charlie Davis	Open	May 21, 2001	1 May 18 2:22 PM

http://65.200.85.2/demo/ExceptionDesk/EVExceptionDetail.asp?Type=Exceptions&Sort=default&Filter=default

FIG. 36

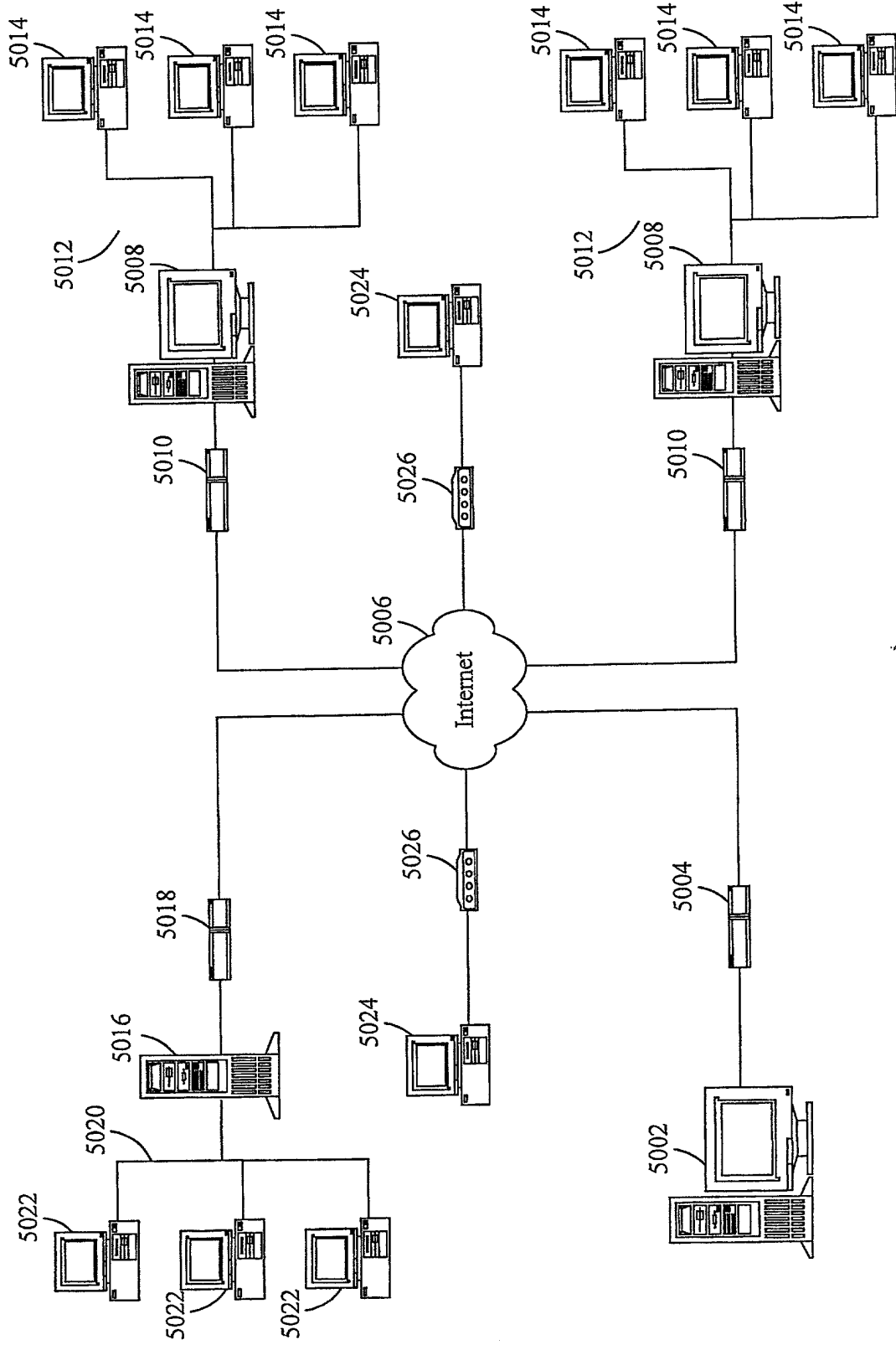


FIG. 37